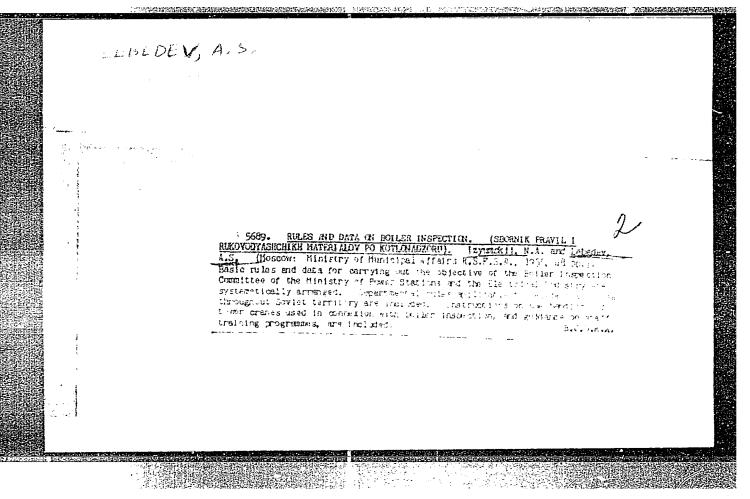
IZYUMSKIY, N.A.; LEBEDEV, A.S.; VARGANOVA, A.N., redaktor; PETROVSKAYA, Ye., tekhnicheskiy redaktor.

[Collection of rules and instructions on boiler inspection] Sbornik pravil i rukovodiashchikh materialov po kotlonadzoru. Moskva, Izdvo Ministerstva kommunal nogo khoziaistva RSFSR, 1954. 438 p.
(Boilers--Inspection) (NIR& 8:1)

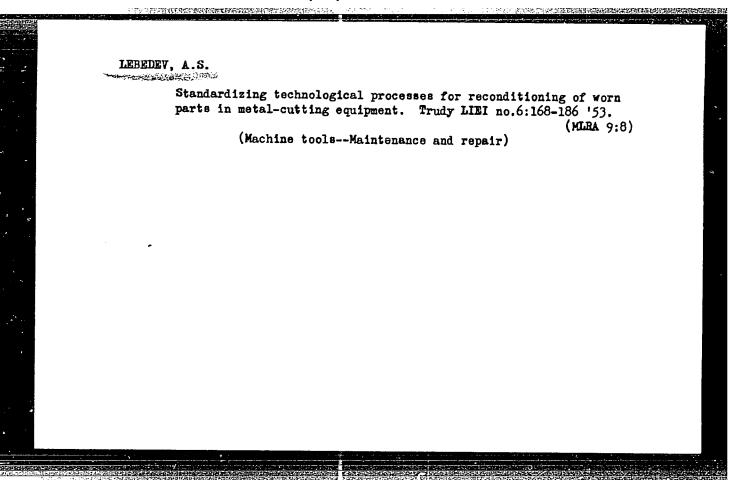


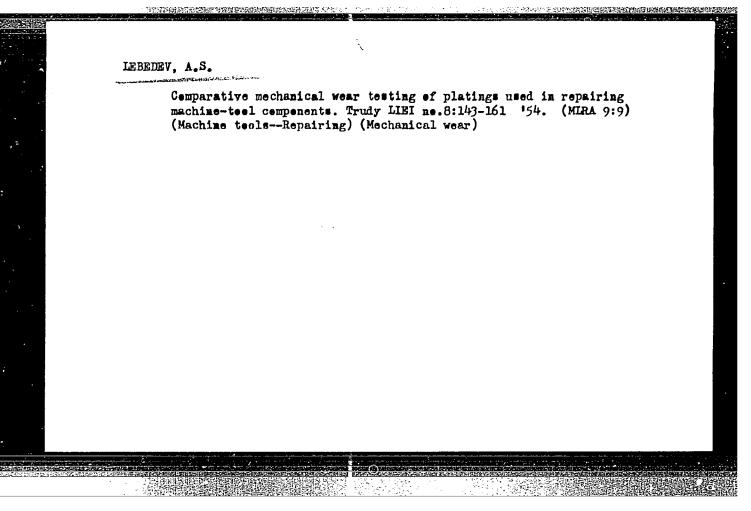
IZYUMSKIY, N.A.; LEBEDEV, A.S.; ALTUF'YEVA, A.M., red.izd-va; VOLKOV, S.V., tekhn.red.

[Symposium of rules and regulations pertaining to boiler inspection]
Sbornik pravil i rukovodiashchikh materialov po kotlonadzovu. Izd.3., ispr. i dop. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 621 p.

(Boiler inspection)

(Boiler inspection)





25(1)

PHASE I BOOK EXPLOITATION

SOV/1954

Lebedev, Aleksandr Semenovich

- Sposoby vosstanovleniya detaley stankov (Methods of Reconditioning Machine-Tool Parts) Moscow, Mashgiz, 1958. 238 p. 6,000 copies printed. Errata slip inserted.
- Reviewer: O.A. Lukin, Engineer; Ed.: N.P. Sobolev, Professor; Ed. of Publishing House: T.L. Leykina; Tech. Ed.: L.V. Sokolova; Managing Ed. for Literature on Machine-building Technology (Leningrad Division, Mashgiz): Ye.P. Naumov, Engineer.
- PURPOSE: This book is intended for engineering personnel in the field of reclaiming machine tool parts.
- COVERAGE: The book explains the causes of wear of machine tool parts, and methods of reconditioning those parts by welding, resurfacing by welding, electroplating with chromium and iron, metallization, lining with bearing metals, and mechanical and electrospark machining. The book also discusses engineering and

Card 1/7

Methods of Reconditioning (Cont.)

SOV/1954

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economic aspects of these methods and presents information on non-Soviet methods of reconditioning of machine parts. The author states that expenses for repairing represents 10 to 12 percent of the cost of equipment; and the cost of spare parts is 25 percent of total repair losts. Five to six percent of the machine tool capacity is engaged in making spare parts. No personalities are mentioned. There are 73 references: 40 Soviet, 23 English, 8 German, 1 Czech, and 1 French.

TABLE OF CONTENTS:

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	Wear and Reconditioning of Machine Parts Types of wear and their causes	5
Ž.	Effect of wear or parts on workability of machine tools	5 8

4. Disassembling machine tools and determining defective parts

5. Methods and means of reconditioning parts

Card 2/7

Foreword

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929010014-5

LEBEDEY, A.S.

124-1957-10-12190

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 136 (USSR)

AUTHOR: Lebedev, A.S.

TITLE: The Life-expectancy of Metal Parts With Metal Coatings

(Dolgovechnost! detaley s metallicheskimi pokrytiyami)

PERIODICAL: Tr. Leningr. inzh.-ekon.in-ta, 1956, Nr 13, pp 69-85

ABSTRACT:

The Author examines coatings applied by smelting, metal plating, chrome plating, steel plating (electrolytic precipitation of iron) and electric spark treatment. The life expectancy is determined in terms of the wear resistance and fatigue strength. Comparative data on the effect of coatings on the fatigue strength of steel parts are presented. It is noted that all types of coatings contribute to a decrease in fatigue strength. The most unfavorable effect occurs during the preparation of a surface for metal plating and the tapping of lacerated threads (its endurance limit is 49 percent lower than in the basic metal). To increase the endurance limit of untempered and uncemented cylindrical parts, the preparation for metal plating can be obtained by knurling; the preparation of hard-surfaced parts is best accomplished by electric spark treatment. The best wear resistance for parts in

Card 1/2

124-1957-10-12190

The Life-expectancy of Metal Parts With Metal Coatings

contact with babbit, bronze, and cast iron is provided by the porour and smooth chrome, the next is metal plating, then smelting and, lastly, steel plating. Data regarding the wear resistance of coatings in terms of the coating thickness are presented. The wearing properties were determined by the wear exerted on a coating by a disc made of a hard alloy. It is noted that smooth chrome is suitable for the coating of parts operating under relatively low specific pressures. Steel metal coatings are expedient for machine parts working at small slippage speeds and relatively low pressures under conditions of liquid friction; electric spark plating can be effectively used for parts working in moving connections; steel plating is suitable for use in parts operating in immobile fittings. For parts jointed in moving connections, steel plating with subsequent chrome plating and cementation is recommended.

V. K. Pereverzev

Card 2/2

SLAVCHENKO, Nikolay Antonovich; LEBEDEV, A.S., nauchnyy red.; GLAZKCVA, Ye.I., red.; NESMYSLOVA, L.M., tekhn. red.

[Electric tools for assembly and repair work] Elektrifitsirovannyi instrument dlia montazhnykh i remontnykh rabot.

Moskva, Proftekhizdat, 1963. 109 p. (MIRA 16:12)

(Power tools)

SLAVCHENKO, Nikolay Antonovich; LEBEDEV, A.S., nauchn. red.; GLAZKUVA, Ye.I., red.; NESTSIOVA, L.W., tekhma-red.

[Electric tool for assembly and repair work] Elektrifitsi-rovannyi instrument dlia montazhnykh i remontnykh rabot.

Moskva, Proftekhizdat, 1963. 109 p. (MIRA 17:2)

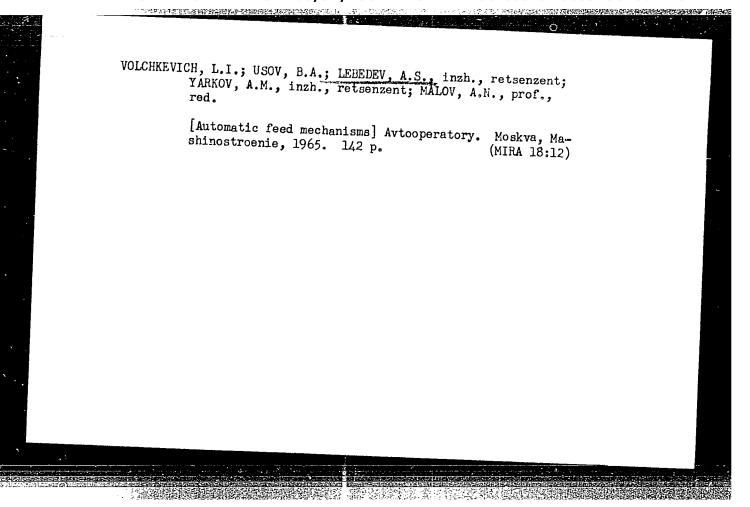
LEBEDEV, A.S.; BOTVINNIK, B.Sh., dots., retsenzent

[Methods of reconditioning machine tool parts] Sposoby vosstanovleniia detalei stankov. Izd.2., perer. i dop. Moskva, Izd-vo "Mashinostroenie," 1964. 255 p. (MIRA 17:6)

KCHSAKOV, V.S., soktos tekhn. nauk, prof.; Inhusiv. A.S., inch., respectative till ville.

[Fundamentals of the design of attestments in the mach nery inquatry) forcery konstallowantle pris, cooklenit v mach nestroenti. Inc. 2., cop. i porce. is awa, Mandamosursente, 1965. 359 p.

(MINA 18:1)



IEBEDEV, A.S.; ILLICENVA, Z.V., kand. tokhn. mank

Determining colium design of the working part of whom for lathe chucks. Avt. proc. 31 no.3-41-43 Mr '65. (Mikk 18:7)

1. Mockewskiy avtomobilingy zavod imeni Likhaenova i Moskevskiy avtomokhanicheskiy institut.

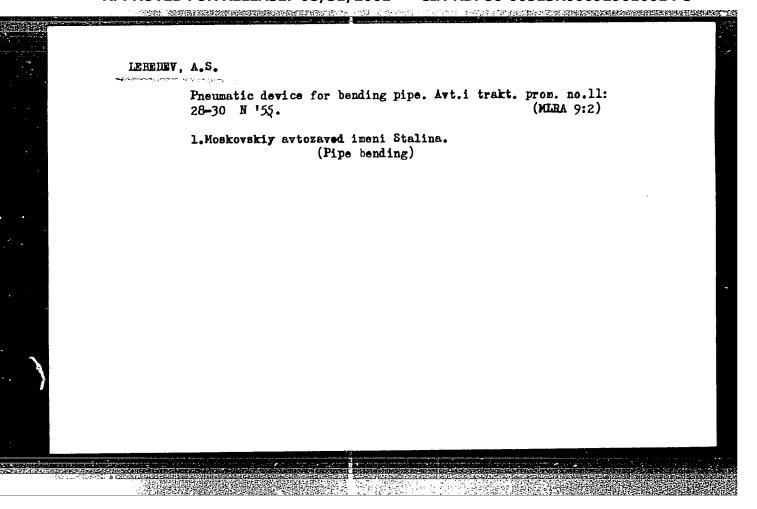
ZONNENBERG, S.M.; LEBEDEY, A.S.; CHERNIAK, A.Ya., inzhener, retsenzent;
VV.DENGKIY, T.A., retektor.

[Pheumatic gripping devices] Pheymaticheskie zazhimnye prisposobleniia.

Moskra, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry.

1953. 159 p.

(Pheumatic tools) (Machinery)



LEGEDEY, HS

NOVODENSKIY, Valerty Vladimirovich; Marchenko, Aleksandr Afanas yevich;
LEBEDRY Aleksandr Sergeyevich; KURYSHEV, Viktor Vasil yevich;
APIRIN, B.S., inzhener, redaktor; UDAL'TSOV, A.N., glavnyy
redaktor

[Semiautomatic device for milling spiral grooves on rollers.
Semiautomatic device for machining both faces. Device for machining slits in threaded stoppers. Device for milling casings] Poluavtomat dlia frezerovaniia spiral nykh kanavok na valikakh. Poluavtomat dlia frezerovaniia dvukh tortsov. Prisposoblenie dlia frezerovaniia shlitsev v rez'bovykh probkakh. Prisposoblenie dlia frezerovaniia kozhukha. Moskva, 1956. 17 p. (Peredovoi proizvodstvenno-tekhnicheskii opyt. Ser. 11, Frezernye i zuboreznye raboty. No.T-56-188/4) (MLRA 10:9)

 Moscow. Institut tekhniko-ekonomicheskoy informatsii (Machine tools-Attachments)

Attachment for milling camehafts. Avt.i trakt.prom. no.4:45-47 Ap 156. (MLRA 9:8)

1. Moskovskiy avtozavod imeni Stalina.
(Milling machines)

PAVIOV, Ya.P., kand.tekhn.nauk, dots.; KIRDYASHEV, Yu.N., kand.tekhn.
nauk, dots.; LEBEDEV, A.S., kand.tekhn.nauk, dots.; FEDOSOVA,
I.V., assistent

Coefficients of friction for asbestos-bakelite materials. Trudy
LIEI no.23:5-17 '58. (MIRA 12:5)

(Bakelite-Testing)) (Friction)

LEBEDEV, A.S., kand.tekhn.mauk, dots.

Selecting the most efficient method for reconditioning parts of equipment. Trudy LIZI no.23:124-138 '58. (MIRA 12:5)

(Factories--Equipment and supplies--Maintenance and repair)

LEBEDEV, A.S.

25(1)

PHASE I BOOK EXPLOITATION

SOV/2288

Zonnenberg, Semen Moiseyevich, and Aleksandr Sergeyevich Lebedev

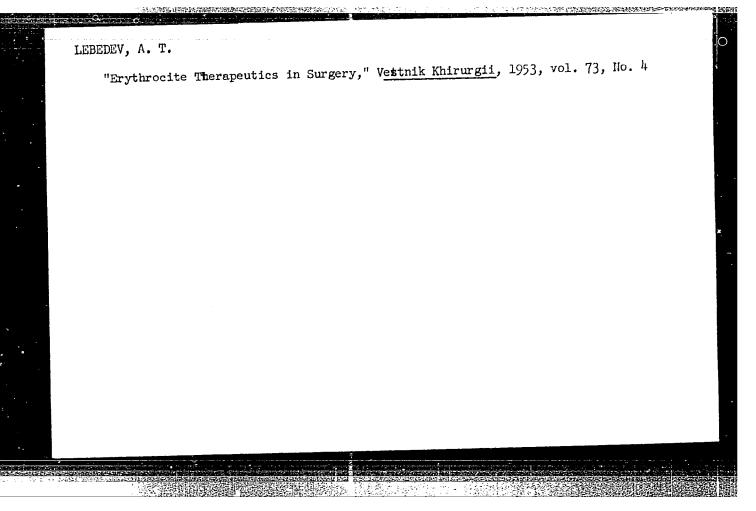
- Pnevmaticheskiye zazhimnyye prisposobleniya (Pneumatic Clamping Fixtures) 2nd ed., rev. Moscow, Mashgiz, 1959. 187 p. Errata slip inserted. 6,000 copies printed.
- Ed. of Publishing House: N.A. Ivanova; Tech. Ed.: V.D. El'kind; Managing Ed. for Literature on Metalworking and Tool Making: R.D. Beyzel'man, Engineer.
- PURPOSE: This book is intended for designers and technologists of machine building plants and may be useful to students of mechanical engineering.
- The authors discuss fundamental problems of designing modern pneumatic clamping fixtures, giving a description of COVERAGE: fittings and control systems, and describing the problems of automation of these fixtures. Special attention is given to clamping mechanisms and to the principal schemes of the fix-The authors also describe fixtures for various types tures. of machining. Card 1/8-

CIA-RDP86-00513R000929010014-5" APPROVED FOR RELEASE: 08/31/2001

LEBEDEV, A.S., inzh.

Control of high pressure steampipes at electric power stations.
Bezop. truda v prom. 8 no.11:29-30 N '64. (MIRA 18:2)

1. Upravleniye Moskovakogo gorodskogo okruga Gosudarstvennogo komiteta pri Sovete Ministrov RSFSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.



UFIMTSEV, A.M., inzh.; LEBEDEV, A.T., inzh.

Testing of turbogenerators in asynchronous operation. Elek.
sta. 33 no.8:28-32 Ag '62.
(MIRA 15:8)
(Turbogenerators—Testing)

LEBEDEV, A.T., inzh.

Automatic control of a tractor with a hydraulic transmission.

Mashinostroenie nc. 2:81-83 Mr-Ap '64. (MIRA 17:5)

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LEBEDEV, A.T.

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PHASE I BOOK EXPLOITATION SOV/5410

Jatakentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peacoful Lies of Atomic Energy) v. 2. Tashkent, Ind-vo AN UNSER, 1960. 149 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of
Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abduraculov, Doctor
of Medical Sciences; U. A. Arifov, Academician, Academy of
Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological
Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. M.
Lebrov, Candidate of Physics and Mathematics; A. I. Mikolayev,
Candidate of Medical Sciences; D. Mishanov, Candidate of Chemical
Stiences; A. S. Sadykov, Corresponding Member, Academy of Sciences
USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Card 1/20

. Transactions of the Tashkent (Cont.)

。 1.11年的中央時期中央地區等的基础的地位的企业中心

SOV/5410

176

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURIOSE: The publication is intended for scientific workers and specialists employed in enterprises where radicactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

GOVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tathkent Conference on the Feareful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radicaltive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radicactive preparations; radicaltive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Gertain

Card 2/20

Transactions of the Tachkent (Cont.)

Instruments used, such as automatic regulators, flowesters, level guages, and high-sensitivity comma-relays, are described. No personalities are mentioned. References follow individual articles.

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IN ENGINEERING AND GROLOGY

Lobanov, Ye. H. [Institut yadermoy fisiki UMSSR - Institute of Muclear Physics AS UMSSR]. Application of Radioactive Isotopes and Nuclear Radiation in Umbekistan

Takmar, I. M., and V. A. Yanushkovskiy [Institut fiziki AN Latv Sys - Institute of Physics AS Latvien SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

(Card 3/20)

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Borulchov, M. Yu., and A. T. Lebedev [Institute of Nuclear Physics AS UzSSR]. A Unified Radioactive Isodromic Regulator (UNIR) 29 Eorulchov. M. Yu., and B. K. Mal'tsev [Institute of Nuclear Physics AS UzSSR]. Experimental Application of High-Sensitivity Gamma-Relay 32 Betin, Mr. P., B. I. Verkhovskiy, N. G. Zelevinskaya, and V. V. Yakushin [Fizicheskiy institut Akademii nauk USSR - Physics Institute AS USSR]. Nethods for Increasing the Adeuracy of Measurements of Radioactive Radiation Flux 36 Snisarenko, A., Z. Tarasova, Ye. Mepomnyashehiy, and V. Movopol-skiy [Nauchno-issledovatel'skiy institut shinnoy promyshlen-nosti-Scientific Research Institute of the Tire Industry]. Theorem and the Wear of Gar Tires by Means of Isotopes 43 Arkhangel'skiy, A. A., and G. D. Latyshev [Institute of Nuclear Card 5/20	
	;

Control characteristics of plate-type ore feeders. Obog. rud 5 no.6:45-48 '60. (MIRA 14:8)

1. Institut yadernoy fiziki AN Uzbekskoy SSR. (Crushing machinery)

LEBEDEV, A. T., Cand. Tech. Sci. (diss) "Automatic Cycle of Crushing and Classification of Ores with Use of Radioactive Isotopes," Tashkent, 1961, 16 pp. (Acad. of Sci. Uzbek 3SR) 175 copies (KL Supp 12-61, 269).

LEBEDEV, A. T.

Changing the circuit of the ER-111-54 controller for operating with radioisotope pickups. Priborostroenie no.10:25-26 (MIRA 15:10)

> (Electric controllers) (Radioisotopes-Industrial applications)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86/09513R000929010014-5" A060/A101 Lebedev, A. T. A060/A101

TITLE:

Application of radioactive isotopes in the scheme for automation of ore grinding and classifying processes

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 8, abstract 1058 (V sb. "Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR. V. 3", Moscow, Gostoptekhizdat, 1961, 216-217)

TEXT: In order to improve the parameters of the pulp obtained and the optimum running of the grinding process, a plan for automating the cycle of grinding and ore classification has been worked out. The uniformity of the pulp density is controlled at the discharge of the classifier of the second grinding stage by means of a radiometric ANN (DPP) sensor. The density regulator connected to this system changes the quantity of water fed to the pulp-separator of the primary ore, as a function of the magnitude and the sign of the deviation from the predetermined density. A pulse unit for isodromic regulation is worked out and applied. It is installed on the servomechanism of the valve controlling the water supply. If the density does not attain the required value, a new Card 1/2

THE TIP OF SHIPPING THE TREAT TO THE PERSON OF STREET

Application of radioactive isotopes ...

S/137/62/000/001/019/237 A060/A101

pulse is generated. The electric circuit of the pulse attachment is connected to the contacts of the position regulating unit built-in into the indicator.

I. Margolin

[Abstracter's note: Complete translation]

Card 2/2

LEBEDEV. A.T.; KODENKO, M.N.

Device for studying the systems of the automatic control of a tractor with hydrostatic type hydraulic transmission. Trakt. 1 sel'khozmash. no.5:8-10 My '64. (MIRA 17:6)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010014-5"

SEREBRYAKOV, I.H., inzh.; LEBEDEV, A.T., inzh.; ADOL'F. V.A., inzh.

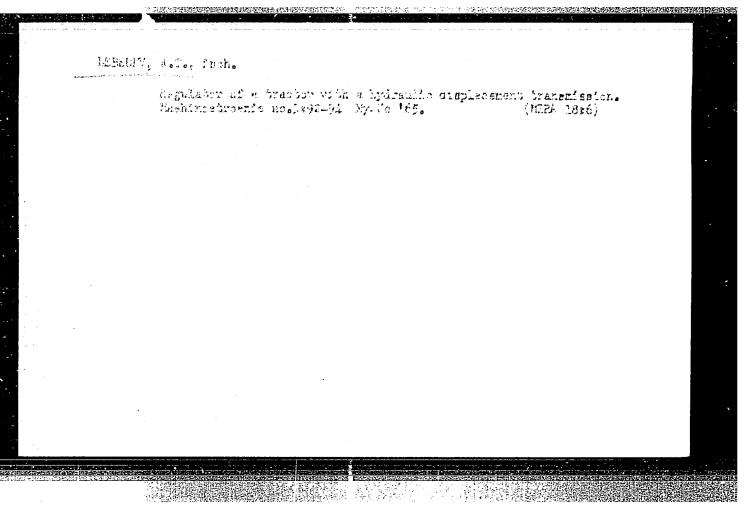
Experimental automotive chassis with an automatic hydraulic displacement drive. Mashinostroenie no.4:94.95 Jl.-kg '64. (MIRA 17:10)

LEBEDEV, A.T., inzh.; LEBEDINSKIY, G.V., inzh.; SEREBRYAKOV, I.N., inzh.

Automation of the operations of a tractor with hydraulic-displacement transmission. Trakt. i sel'khozmash. no.9:1-3 S '64.

(MIRA 17:11)

1. Khar'kovskiy traktorosborochnyy zavod.



LEBSDEV, A.T.; KARTUSHIN, V.P.; UCHURKHANOV, M.M.

Affect of nuclear radiation on the flotation process. Tayet.

met. 38 no.6:11-14 Je '65. (MIRA 18:10)

ACC IVES	P6009496 SOURCE CODE: UR/	/0106/66/000/003/0003/0010	
AUTHOR:	Beletskiy, A. F.; Lebedev, A. T.	45	•
ORG: non		13	o
TITLE: S	ynthesis of adjusted filters on the	passive elements	
SOURCE:	Elektrosvyza', no. 3, 1966, 3-10		
TOPIC TAG	S: electric filter, signal element, nal, pulse duration modulation	radar signal analysis,	
ABSTRACT: pole with reproduce the end d found. P analyzed.	A synthesis was formulated for the end-point concentrated elements have the property of adjusted filters for uration. Canonical diagrams of the roblems of adjusted filters on element origonart, has: 2 figures and 15 pastract]	r the arbitrary signal of adjusted filters have been nts with losses were formulas. [Based on	
	17 '00/ guny page	P. 002/ 077	
	17, 09/ SUBM DATE: 070ct65/ ORIG REP	F: 002/ OTH REF: 002.	- D
	UDC: 621.372.5	F: 002/ OTH REF: 002.	

LEBEDRY, A.V., aspirant

Technic of endophotography in cancer of the larynx. Vest.otorin. 22 no.2:93-96 Mr-Ap '60. (MIRA 13:12)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - doktor med.nauk I.I.Potapov) TSentral'nogo instituta usovershenstvovaniya vrachey i kliniki bolezney ukha, gorla i nosa (zav. - zasluzhennyy deyatel'nauki RSFSR prof. I.Ya.Sendul'skiy) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F. Vladimirskogo.

(LARYNX neoplasms) (PHOTOGRAPHY)

LEBEDEV, A.V., aspirant

Color endophotography of cancerous tumors of the larynx. Zhur. ush., nos. i gorl. bol. 20 no. 3:31-34 My-Je '60. (MIRA 14:4)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - doktor med.nauk I.I. Potapov) TSentral'nogo instituta usovershenstvovaniya vrachey i otorinolaringologicheskoy kliniki (zav. - zasluzhennyy deyatel' nauki RSFSR prof. I.Ya. Sendul'skiy) Moskovskogo oblastnogo nauchno-issledovatel'skogo instituta imeni M.F. Vladimirskogo. (LARYNX—CANCER) (PHOTOGRAPHY, MEDICAL)

LEBEDEV.A.V., kand.med.nauk

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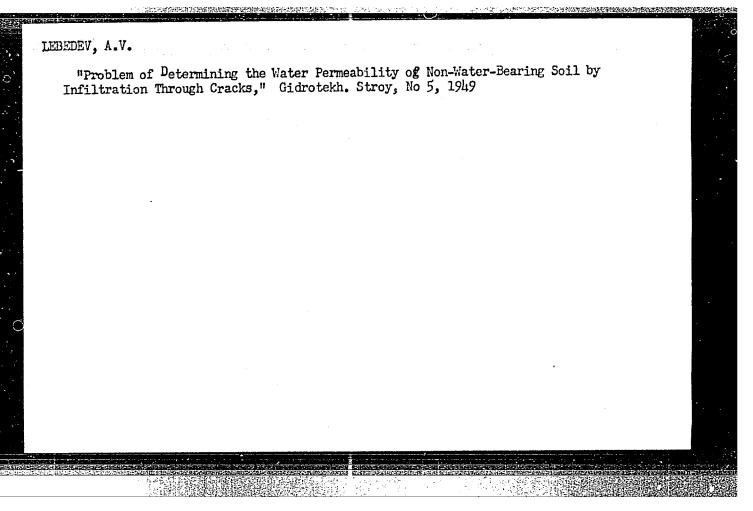
Technique of endofluorography in cancer of the larynx. Zhur. ush., nos. i gorl. bol. 23 no.3:88-89 My-Je '63. (MIRA 16:7)

l. Iz Nauchno-issledovatel'skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR (dir.- zasluzhennyy deyatel' nauki prof. A.I.Kolomiychenko)_g (LARYNX--RADIOGRAPHY) (LARYNX--CANCER)

Every, A. ".

"Experient on the approximate valuals tion of the affluent (tributary) of ground waters in the shore mone, p. 222.

A paper found in the symporium Works of the hateratory of my droceological Problems imend f. P. Squarenskiy", Vol. I.I (1968), or oveleningual.



GARMOHOV, I.V.; LEBEDEV, A.V.

3 因的有限的概念的概念的可能也是指示的的信息。

[Basic problems in ground water dynamics] Osnovnye zadachi po dinamike podzemnykh vod. Moskva, Gos.izd-vo geol.lit-ry, 1952. 243 p. (MLRA 6:8) (Water, Underground)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010014-5"

LEBEDEV, A. V,

"Experimental Method for Determination of Evaporation of Ground Waters and Their Supply by Infiltration of Atmospheric Precipitation Under Natural Conditions," Vopr. Gidrogeol. i Inzh. Geologii, 19-27, 1953.

The author describes lysimetric installation in the hydrogeological station (statsionar) of the All-Union Institute of Hydrogeology and Engineering Geology. An A. Rode-type lysimeter was used with a number of improvements added. The results of observations showed the close agreement with computed quantities as obtained by the method of finite differences of G. N. Kamenskiy. The experimental method, in contrast to Kamenskiy's method, does not require long observations. (RZhGeol, No 5, 1954) 50: Sum. No. 443, 5 Apr. 55

SOV/124-58-7-7784

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 69 (USSR)

AUTHOR: Lebedev, A.V.

TITLE: On the Migration of Moisture in the Earth and in Soils (K voprosu ob izuchenii migratsii vlagi v pochvakh i gruntakh)

PERIODICAL: V sb.: Vopr. izucheniya podzemn. vod. i inzh.-geol. protsessov. Moscow, Izd-vo AN SSSR, 1955, pp 31-40

ABSTRACT: Observations made at a hydrological experiment station on a 7-hectare area are compiled. The study of the migration of moisture is performed by means of an examination of the moisture balance and the ground-water balance linked with it. A vertical prism bounded on the top by the earth's surface and on the bottom by the deepest level of the ground water is isolated. The amount of the feeding of the ground water from above is calculated by the equation of the nonstationary flow in terms of finite differences (taking into consideration the annual fluctuations of the ground-water level, data on the volume of the flow, the permeability and the volume of the ground-water outflow). The balance of moisture is calculated from the volume of the surface feed and the change in the level of the ground water

SOV/124-58-7-7784

On the Migration of Moisture in the Earth and in Soils

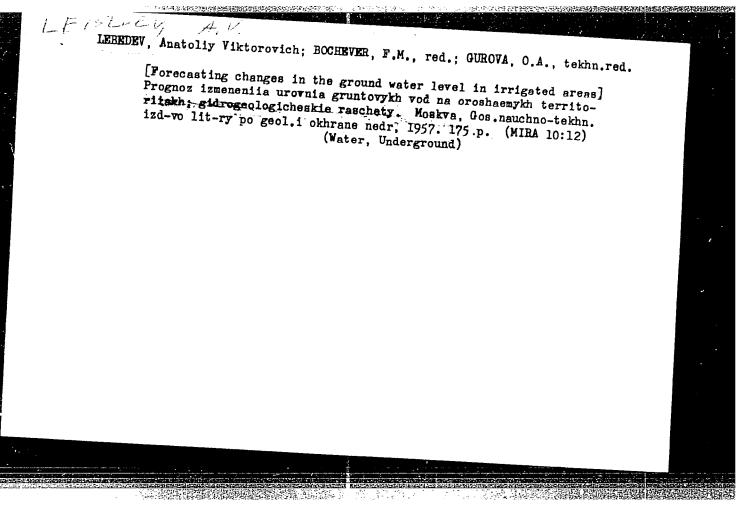
for a known period of observation. The volume of the moisture exchange between the earth and soil and the atmosphere is determined from the equation of the earth and soil moisture balance of the prism. Using the moisture-exchange value and the variation in the moisture capacity in the different layers of the balance prism, a diagram of the moisture migration is plotted. The investigations have shown that the top layer of the soil-ground prism is characterized by the greatest mobility of the moisture. The middle layer (below 0.9 m) has a relatively stable moisture content. In summer this layer is the principal conductor of upward and downward currents and during the autumn and winter periods it accumulates the moisture, storing it until spring when it is released into the ground-water flow. Bibliography: 5 references.

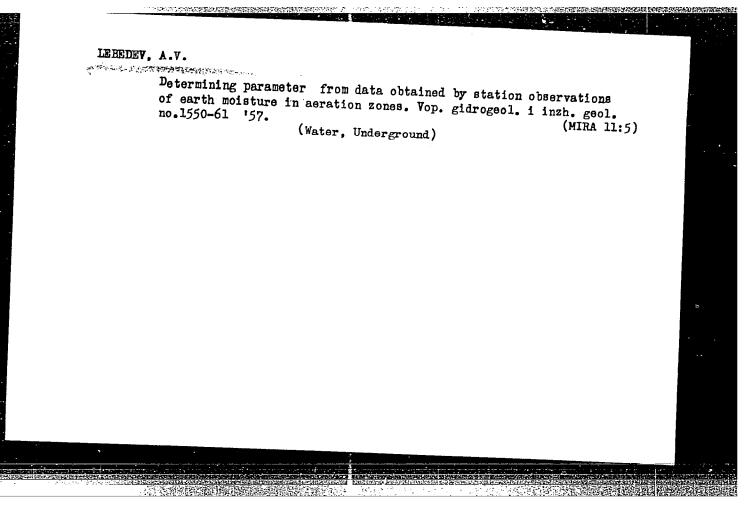
A.R. Shkirich

1. Earth--Moisture content 2. Soils--Moisture content 3. Mathematics--Applications

Card 2/2

CIA-RDP86-00513R000929010014-5" **APPROVED FOR RELEASE: 08/31/2001**





LEBEDEV, A. V., Doc Geol-Min Sci -- (diss) "Study of the balance of ground water," according to data obtained from stationary observations of their me regime." Mos, Gosgeoltekhizdat, 1958. 36 pp (Min of Higher Education USSR, Mos State Order of Lenin and Order of Labor Red Banner Univ im M. V. Lomonosov), 110 copies. List of author's works pp 34-35 (11 titles) (KL, 18-58, 96)

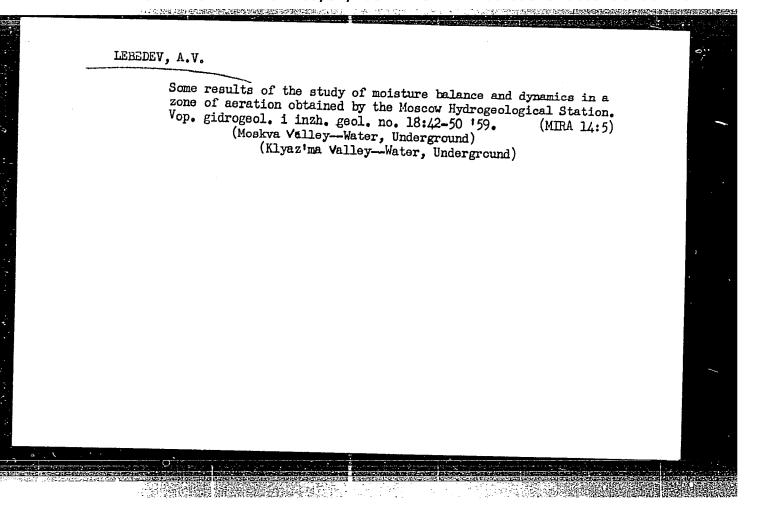
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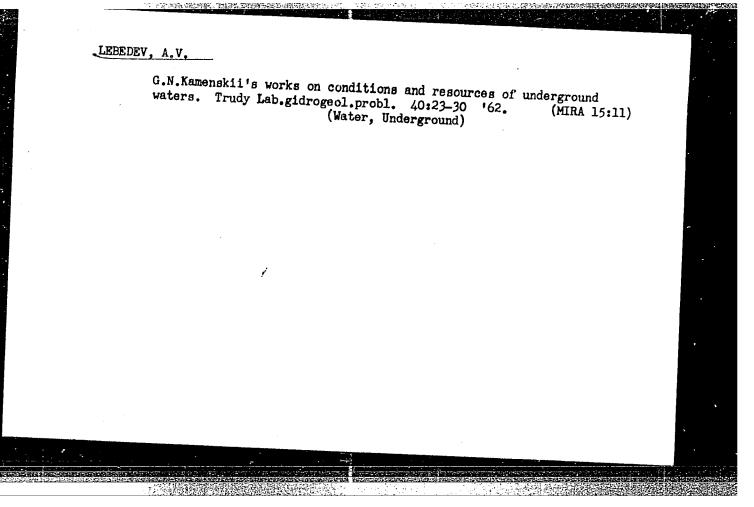
GARMONOV, I.V.; LEBEDEV, A.V.

Hydrogeological conditions in the Pekhorka-Kupavenka interfluve in connection with the evaluation of the regime and resources of ground water for water-supply purposes. Trudy Lab.gidrogeol.probl. (MIRA 12:2)

1. Laboratoriya gidrogeologicheskikh problem imeni F.P. Savarenskogo AN SSSR i Vsesoyuznyy nauchno-issledovatel skiy institut gidrogeologii i inzhenernoy geologii.

(Pekhorka Valley-Water, Underground) (Kupavenka Valley-Water, Underground)





LEBEDEV, Anatoliy Viktorovich; KITAYENKO, L.G., red.izd-va; IVANOVA, A.G., tekhn. red.

[Methods for studying the balance of ground waters] Metody izucheniia balansa gruntovykh vod. Moskva, Gosgeoltekhizdat, 1963. 191 p. (MIRA 16:10)

KONOPIYANTSEV, A.A.; KOVALEVSKIY, V.S.; LEBEDEV, A.V., naucim.

[Principles of the distribution of an observation net for the study of the natural regime of underground waters; methodological instructions] Printsipy razme-shehenila nabliudatelinoi seti dlia izuchenila estestvennogo rezhima podzemnykh vod; metodicheskie ukazanila. Moskva, 1963. 47 p. (MIRA 17:9)

1. Moskva. Vsesoyuznyy nauchno-issledovateliskiy institut gidrogeologii i inzhenernoy geologii.

LEBEDEV, A.V.

Methods for the solution of basic problems during observations of the regime of underground waters. Trudy VSEGINGEO no.10:31-37 *64.

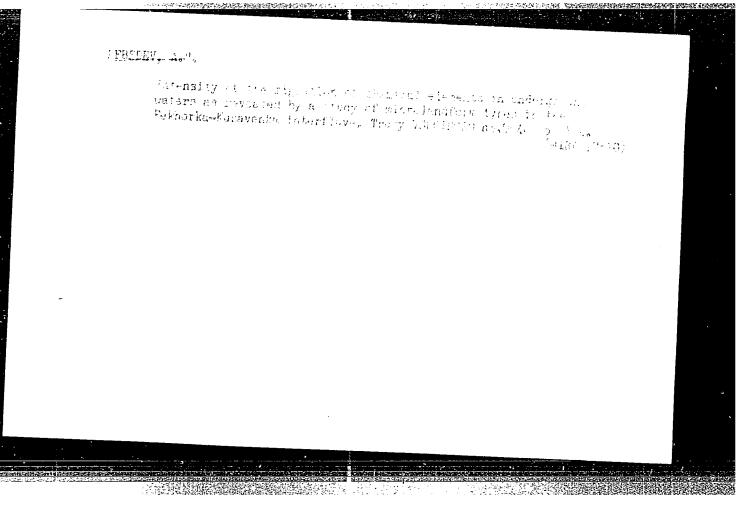
1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

LEBEDEV, A.V.

, Practice in statistical processing of the results of long-term observations of the regime of ground waters. Trudy VSEGINGEO no.10:64-72 '64.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010014-5"



Role of a forest in increasing the attendance Sahelie. 11.5 SO AK SSSE no.28 Ser. biological nauk no.29/12/6 181 (1872 1201)

1. Institut less i drevesly Sitirakago eldeleniya di SSS Kranneyarak.

NIKITIN,S.Ya.; SMOLYANKIN,V.T.; KOLGANOV,V.Z.; LEREDEV,A.V.; LOMKATSI, G.S.

[Dispersion of slow neutrons into ortho-and paradeuterium] Resesianie mediennykh neitronov na orto- i para-deiterii; doklady, predstavlennye SSSR na Mezhdunarodnulu konferentsiin omirnomn ispol*sovaniu atomnoi energii. Moskva, 1955. 12 p. [Microfilm] (Deuterium) (Muclear physics)

(MIRA 9:3)

DIATTROPTOV, D.B., KOLGANOV, V.Z., LEBEDEV, A.V., NIKITIN, S. Ya., SMOLYARKIN, V.T., and SOKOLOV, A.P. (Acad. Sci. USSR)

"Slow Neutrons Scattering by Ortho- And Para-Tritium."

paper submitted at the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Mowcow, 19-27 Nov, 57.

SOV-120-58-1-4/43

AUTHORS: Kolganov, V. Z., Lebedev, A. V., Nikitin, S. Ya. and Smolyankin, V. T.

TITLE: A Liquid Hydrogen Bubble Chamber (Zhidkovodorodnaya puzyr'kovaya kamera)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 31-34 (USSR)

ABSTRACT: The construction of a working liquid hydrogen bubble chamber is described. The volume is 1 litre and the diameter 10 cm. The chamber was designed as a pilot experiment to obtain information which would be useful in the design of a much larger one. A section through the chamber is shown in Fig.1. The working volume of the chamber and the hydrogen reservoir are completely separated. The closed working volume of the chamber is surrounded by a hydrogen bath connected to the hydrogen reservoir. In this way good screening of the chamber from thermal radiation is achieved and the problem of temperature stability is simply resolved by the stabilisation of the pressure in the reservoir. An important feature of the chamber is the method of mounting of the glass

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SOV-120-58-1-4/43

A Liquid Hydrogen Bubble Chamber.

walls of the chamber. This is illustrated in Fig.2. The Pyrex windows are mounted on copper washers as shown in the latter figure and this was found to be very satisfactory. The method of illumination is described and is illustrated in Fig. 3. A typical oscillogram of the working cycle is shown in Fig.4. The chamber can be kept at the lower pressure for 30 to 40 millisecs but this time can be varied. The re-establishing of the pressure to the upper value takes approximately 15 millisecs. Normally, the upper pressure is 7 atm and the lower 3 atm. A series of photographs was also taken with pressure reductions down to 1 to 2 atm. Special experiments have shown that the sensitive time is not less than 40 milli secs. The repetition frequency of the working cycle is about 7 to 10 cycles per minute. Fig. 5 shows a photograph of tracks obtained in the neutron beam of a synchrocyclotron obtained in studies of \(\mathbb{\capacture}\)-meson formation in n-p collisions. The following persons collaborated: A. N. Yershov, N. A. Zubkov, V. A. Beketov, Ye.F. Lokhaneva,

Card 2/3

SOV-120-58-1-4/43

A Liquid Hydrogen Bubble Chamber.

N. I. Makarov, A. P. Sokolov, G. S. Lomkatsi, G. I. Blinov and Yu. S. Krestnikov. There are 5 figures, no tables and 9 references, of which 6 are English, 3 Soviet.

SUBMITTED: July 3, 1957.

- 1. Bubble chambers--Design 2. Bubble chambers--Materials
- 3. Bubble chambers--Performance 4. Hydrogen (Liquid)--Applications

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010014-5"

LEBEDEV, A.V.

SOV-120-58-1-6/43

AUTHORS: Belonogov, A. V., Zel'dovich, A. G., Kolganov, V. Z., Landsberg, L. G., Lehedev, A. V., Nikitin, S. Ya., Smolyankin, V. T., Sokolov, A. P.

TITLE: A Photographic Setup for Large Hydrogen Bubble Chambers (Sistema fotografirovaniya dlya bol'shikh vodorodnykh puzyr'kovykh kamer)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 38-41 (USSR)

ABSTRACT: A photographic setup for hydrogen bubble chambers of large dimensions is quite different from that for Wilson and diffusion chambers. In particular, a gas bubble in liquid hydrogen scatters light mainly in the forward direction, most of it between 0 and 10°, say (cf Fig.1) so that it is impossible to photograph the tracks at 90° to the incident light as is done in the usual chambers. For small bubble chambers the photographs may be taken with direct transmission in which the source of light is on the one side of the chamber and the photographic camera on the other (Refs.3-5). However, it is very difficult to use this system with a large hydrogen chamber since it is desirable not to employ large glasses as it is difficult to Card 1/3 mount these on the main body of the chamber. The present

SOV-120-58-1-6/43

A Photographic Setup for Large Hydrogen Bubble Chambers.

authors have therefore developed a method of illuminating and photographing on one side of the chamber only. This method was tried on the working hydrogen chamber described in Ref. 5 (this issue) and is shown in Fig. 2. The back wall of the chamber was in the form of a spherical mirror, at the centre of curvature of which the source of light was placed. The light reflected from this mirror is focussed back again at the source and does not enter the objective of the photographic camera (B in Fig.2). The light which after reflection is scattered by the bubbles does enter the photographic camera and gives rise to the track images (Fig. 3, facing p.35). The main disadvantage of this method is that in addition to the real images one gets the virtual images as well but these can be recognised by inspection or by a measurement of track co-ordinates by means of 2 stereophotographs (the virtual image lies behind the mirror). A calculation of the scattered light as a function of angle,

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SOV-120-58-1-6/43

A Photographic Setup for Large Hydrogen Bubble Chambers.

the result of which is shown in Fig.1, is given in a mathematical appendix. There are 5 diagrams, no tables and 7 references, of which 4 are English and 3 Soviet. SUBMITTED: June 3, 1957.

1. Bubble chambers--Equipment 2. Particles--Photographic analysis 3. Photography—Applications

Card 3/3

SOV/120-58-4-6/30

AUTHORS: Kolganov, V. Z., Lebedev, A. V., Mikitin, S. Ya., Smolyankin, V. T. and Sokolov, A. P.

TITLE: A Liquid Deuterium Bubble Chamber (Puzyr'kovaya kamera s zhidkim deytoriyem)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Mr 4, p 30 and l plate (USSR)

ABSTRACT: In Ref.1 the authors described a working hydrogen bubble chamber. An experiment, described in the present article, was made to discover whether it is possible to use deuterium as the in mind First, it was expected that the presence of β -active tritical in deuterium (10-8 to 10-9%) would lead to a large number of short tracks in the liquid and thus produce a considerable background. Experiments on deuterium in a diffusion chamber have been unsuccessful precisely for this reason
(Ref.2). Secondly, the critical pressure of deuterium
(16.5 atm) is considerably higher than the critical pressure
for hydrogen (12.8 atm). It is well-known (Ref.3) that the

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SOV/120-58-4-6/30

A Liquid Deuterium Bubble Chamber

normal superheating of the liquid is effected [takes place] when the pressure in the chamber up before expansion is equal to two-thirds of the critical pressure. This condition may be easily satisfied if the chamber and the bath is filled with liquid deuterium. However, if the bath is filled with liquid hydrogen and the chamber with liquid deuterium, then it is impossible to obtain pressures greater than 8 atm in the chamber. For this reason it was feared that on expansion the superheating of the deuterium would be insufficient and the liquid would be insensitive to radiation. Experiments made to elucidate all these points have shown that it is possible to use deuterium as the working liquid in the bubble chamber without any special purification. The construction and operation of the deuterium chamber is similar in many ways to that of the dydrogen chamber. The bath was cooled down to liquid nitrogen temperature and was filled with liquid hydrogen. The chamber was then filled with technical deuterium which was not specially purified to remove tritium. The pressure in the hydrogen bath was increased to 12.4 atm and was kept at that level. After the thermal equilibrium between the chamber and the bath was

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sov/120-58-4-6/30

A Liquid Deuterium Bubble Chamber

reached, an expansion of the working colume was carried out. In the absence of radioactive sources in the vicinity of the chamber no tracks or bubbles appeared in the working volume. When a Co⁶⁰ source was placed near the chamber, pictures similar to that shown in Fig. 1 were observed after expansion. L.G. Landsberg and N.I. Makarov are thanked for their help in the experiment. There is 1 figure, no tables and 3 references, 2 of which are Soviet and 1 English. The authors also express their thanks to B.N. Dmitrivevskaya, director of the hydrogen liqued action station of the Laboratory of Nuclear Physics Problems (Laboratoriya yadernykh problem) of OIYAI, and to N.B. Delone who supplied the deuterium.

SUBMITTED: October 26, 1957

.Card 3/3

L 2/350-65 EVT(m)/EPF(c)/EVP(t)/EWP(b) ACCESSION NR: AP4041007 Pr-4 IJP(c)/AFWL \$/0120/64/000/003/0005/0025 AUTHOR: Kliger, G. K.; Kolganov, V. Z.; Lebedev, A. V.; Smolyankin, V. T.; Sokolov, A. P. TITLE: Problems of designing liquid-hydrogen bubble chambers. (A review) SOURCE: Pribory* i tekhnika eksperimenta, no. 3, 1964, 5-25 TOPIC TAGS: bubble chamber, liquid hydrogen bubble chamber, bubble chamber design ABSTRACT: Based on 1946-63 Soviet sources and 1952-63 Western (mostly American) sources, the review covers these points: invention and development of the chamber; principal parts and their arrangement (round, rectangular, conical chambers); transillumination at small angles; metals used for chamber housing and their low-temperature characteristics; illuminators, their expansioncontraction conditions, and gaskets used to meet them; thermostatic controls; Card 1/2

L 20350-65 ACCÉSSIÓN NR: AP4041007

sylphon, gas, and piston expansion mechanisms; radiation screens; auxiliary cooling devices; safety devices and safety problems. Twelve large liquidhydrogen bubble chambers (7 American, 2 French, 1 CERN, 1 British, and 1 TEF Soviet) are listed with these characteristics reported: working space dimensions, housing material, number and arrangement of illuminators, expansion system, illuminator gasket, piston gasket, thermostatic control, liquid hydrogen consumption, operating mode, piston stroke, expansion factor, magnet characteristics, exposure, false radius of curvature, year of completion. Orig. art. has: 20 figures, 14 formulas, and 4 tables.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: NP

NO REF SOV: 012

ENGL: 00

OTHER: 021

Card 2/2

L 13945-65 EWT(m)/T/EWA(m)-2 AFWL/SSD/ASD(a)-5/ESD(dp)/ESD(t) ACCESSION NR: AP4047888 S/0056/64/047/004/1228/1231

AUTHORS: Guzhavin, V. M.; Kliger, G. K.; Kolganov, V. Z.; Lebedev, A. V.; Marish, K. S.; Musin, M. A.; Prokoshkin, Yu. D.; Smolyankin, V. T.; Sokolov, A. P.; Soroko, L. M.; Ts'ui, Wa-ch'uang

TITLE: Elastic proton scattering at 650 MeV

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 4, 1964, 1228-1231

TOPIC TAGS: proton proton scattering, elastic scattering, angular dependence, scattering cross section, differential cross section

ABSTRACT: A total of 1767 events of elastic p-p scattering at 650 MeV was registered with the liquid-bubble chamber of the ITEF, placed in the beam of protons with energy 650 ± 5 MeV. The equipment and procedure were described by the authors elsewhere (ZhETF v. 46, 1245, 1964); the proton scattering angles were measured with

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ACCESSION NR: AP4047888

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the LYaP reprojector (A. T. Vasilenko et al. PTE, No. 6, 34, 1957). A statistical comparison of the present data with earlier results is made. The angular dependence of the differential cross section, averaged over angle intervals of 3°, is deduced from the results and approximated by means of an empirical polynomial. "In conclusion we thank M. P. Baldin for help with the measurements on the reprojector and microscope, and L. I. Lapidus for a discussion of the results." Orig. art. has: 2 figures, 2 formulas, and 1 table.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy

(Joint Institute of Nuclear Research)

SUBMITTED: 30Apr64

ENCL: 00

SUB CODE: NP

NR REF SOV: 006

OTHER: 001

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"APPROVED FOR RELEASE: 08/31/2001

s/0056/64/046/004/1245/1256

AP4031146 ACCESSION NR:

AUTHORS: Guzhavin, V. M.; Kliger, G. K.; Kolganov, V. Z.; Lebedev, A. V.; Marish, K. S.; Prokoshkin, Yu. D.; Smolyankin, V. T.; Sokolov, A. P.; Soroko, L. M.; Ts'ui Wa-ch'uang

TITLE: Pion production in pp collisions at 650 MeV energy

Zh. eksper. i teor. fiz., v. 46, no. 4, 1964, 1245-1256 SOURCE:

TOPIC TAGS: pion production, pion pion interaction, resonance scattering, Mandelstam representation, isotopic invariance

ABSTRACT: A liquid-hydrogen bubble chamber was used to investigate pion-nucleon correlations and the angle and energy distributions of pions produced by 650-MeV protons. The investigation was motivated by the few unanswered questions which the Mandelstam phenomenological resonance model (Proc. Roy. Soc. v. A244, 491, 1958) does not supply. Among these questions are the possibility that isospin is not con-

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ACCESSION NR: AP4031146

served and the role of the (3/2, 3/2) resonance in pion production. Four reactions are investigated

$$p + p \rightarrow p + p,$$

$$p + p \rightarrow d + \pi^{+},$$

$$p + p \rightarrow p + n + \pi^{+},$$

$$p + p \rightarrow p + p + \pi^{0}.$$

The results of the investigation indicate that the experimental angular distributions of neutral and charged pions are consistent with the assumption of isotopic invariance. The contributions of πN -subsystem states with isospin $T_{\pi N} = 1/2$ and 3/2 are measured and found to be 72 \pm 3% in the latter case. The cross sections, the angular distributions, and energy spectra of the particles were determined by methods free of the influence of systematic errors inherent in experiments using particle counters. In addition, angle and energy

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ACCESSION NR: AP4031146

correlations were obtained in the three-particle processes (3) and (4); these characteristics could not be obtained by earlier procedures. The liquid-hydrogen bubble chamber makes it possible to carry out an exhaustive study of all pp scattering processes in a single experiment. It was confirmed that the cross section for pion pair production in this energy range is negligible. "In conclusion we thank the technicians and laboratory assistants for good operation of the liquid-hydrogen bubble chamber, the scanning group of ITEF headed by D. I. Tumanova, the scanning group of OIYaI who reduced the photographs, and also Ye. M. Landis and Ye. S. Gal'pern for setting up the program and performing the calculations on the electronic computer." Orig. art. has: 14 figures, 21 formulas, and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics, GKAE); Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of

Card 3/5.____

ACCESSION NR: AP4031146

Nuclear Research)

SUBMITTED: 14Nov63 DATE ACQ: 07May64 ENCL: 01

SUB CODE: GP, NP NR REF SOV: 013 OTHER: 003

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LEBEDEY, AY.

SOKOLOV, V.N., kandidat tekhnicheskikh nauk; KUROYEDOV, V.A., kandidat tekhnicheskikh nauk; SOROKIN, A.I., kandidat tekhnicheskikh nauk; LEBEDEY, A.V., inzhener; ZOBNIN, B.F., inzhener; VOYEVODKIN, I.B., inzhener.

Investigation of the heating of large ingots. [Trudy] TSNIITMASH (MIRA 7:9) 66:83-115 154.

1. TSHIITMASh (for Kuroyedov). 2. Uralmashzavod (for Voyevodkin). (Steel ingots) (Metals -- Heat treatment)

CIA-RDP86-00513R000929010014-5" APPROVED FOR RELEASE: 08/31/2001

LEBEDEV, A-V

PHASE I BOOK EXPLOITATION 1042

- Ural'skiy zavod tyazhelogo mashinostroyeniya, Sverdlovsk
- Kovka i termicheskaya obrabotka (Forging and Heat Treatment) Moscow, Mashgiz, 1958. 132 p. (Series: Its Sbornik statey, vyp 5) 6,000 copies printed.
- Ed.: Kvater, I.S., Engineer; Tech. Ed.: Dugina, N.A.; Ed. (Ural-Siberian Division, Mashgiz): Sustavov' M.I., Engineer.
- PURPOSE: This book is intended for engineers and technicians working in the field of forging and heat-treating of metals.
- COVERAGE: The book presents material which reflects the achievements of Uralmashzavod (Ural Heavy Machine-building Plant imeni S. Ordzhonikidze) in the field of forging and heat-treating of metals. Various improvements in production methods, mechanization and automation of forging and heat-treating processes, application of various methods of inspection of forgings and elimination of rejects are described. Specific information on improvements in

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1042 Forging and Heat Treatment

forging and heat-treating of large parts such as turbine discs and rotors, cold-rolling-mill rolls, and crankshafts are presented. Descriptions are given of the results of new studies undertaken with a view to elimination of rejects and improvement of the condition of rejects. undertaken with a view to elimination of rejects and improveme the quality of parts, determination of residual stresses at various cooling speeds, data on the efficiency of ultrasonic inspection and the effect of degassing of molten steel on the quality of forgings. The book was prepared by the members of the plant organization of NTOmashprom in connection with the limit appropriate the limit Heavy Machine-building Plant. 25th anniversary of the Ural Heavy Machine-building Plant.

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SOV/137-59-3-6888

Translation from: Referativnyy zhurnal Metallurgiya; 1959; Nr 3; p 28, (USSR)

AUTHORS: Lebedev, A. V., Istyugov, P. A.

TITLE: Welding of Internal Defects During Forming of Large Forgings (Za-

varka vnutrennikh defektov pri kovke krupnykh pokovok)

PERIODICAL: Sb. statey Uraliskiy z-d tyazh mashinostro im S Ordzhonikidze,

1958, Nr 5, pp 21-33

ABSTRACT: In order to verify the effect of the deformation (D) pattern on the

weldability of internal defects, a roll (R) with a body of a diameter of 1030 mm forged from a 63.4-ton ingot of steel 34KhN2M was reforged. The forging (F) was rejected as a result of a periscopic inspection which revealed a large number of cracks in the channel extending from 25 to 60 mm in length. One section of the R was first forged into the shape of a disc between two dies, of which the lower one was grooved while the upper one was plain, and then into a shape resembling a step-pulley with diameters of 615 and 520 mm; the other section of the R was first given the shape of a plate and was then forged into

the same form as the first section. Investigations demonstrated that

Card 1/2 internal cracks may be welded by forging and corroborated the

SOV/137-59-3-6888

Welding of Internal Defects During Forming of Large Forgings

assumption that forging of the R into the intermediate shape of a plan produces greater D in its axial portion than when it is forged into a disc. The data of the investigation were employed in developing a new technology of forging of Rs with bodies 900 mm in diameter. In accordance, with this technology, the blank was reduced to a square cross section after upsetting, was heated, and was then forged into a plate at reductions amounting to 200-250 mm and at an advance of 600-700 mm. The ratio of the width of the forged plate to its height varied between the limits of 1.6-1.7 By employing the technique described, the D was extended throughout the entire section of the F, which, in conjunction with elevated temperatures of D, facilitated the welding of cracks. The plate was next forged into a square shape and then into the shape of a disc the diameter of which exceeded the diameter of the F of the R only by 50 mm Concurrently, other measures intended to improve the quality of the R's were carried out. A mold was designed which ensures the production of ingots having an axial area of greater density; normalization was introduced in place of tempering of the Rs in order to prevent the initiation or propagation of internal cracks

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Card 2/2

SOV/117-59-8-42/44

AUTHOR:

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Lebedev, A.V., Engineer

TITLE:

Consultations. On the Calculation of Gears.

PERIODICAL: Mashinostroitel', 1959, Nr 8, pp 46-47 (USSR)

ABSTRACT:

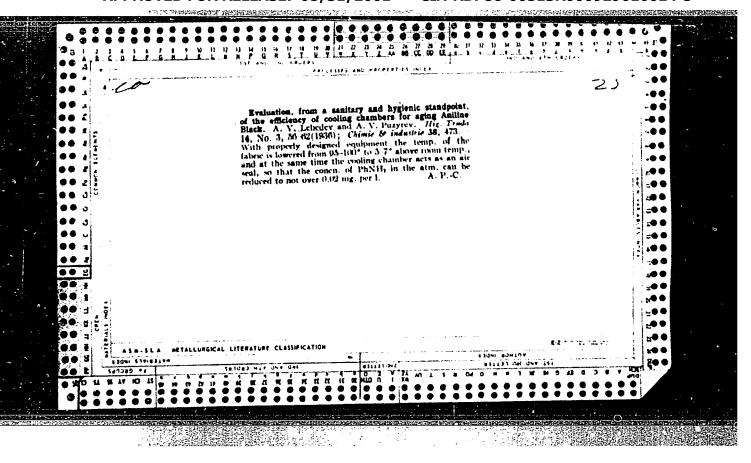
Question. How can the curvature radii of an involute tooth profile be calculated if the pressure angle is 20 ?

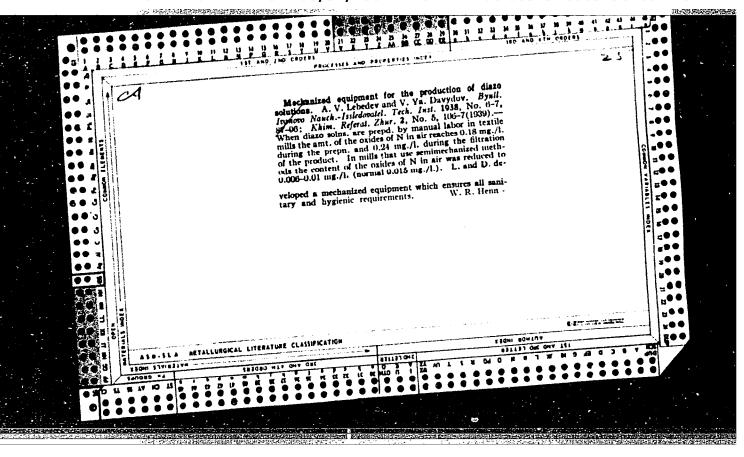
Question. How to plot the tooth profile for cutting in a shaper if the gear is with corrected teeth, and the correction is obtainable by a shift of the cutting tool? Question 1 is answered by the formula. Question 2 is answered by a reference to books by V.A. Gavrilenko (Mashgiz 1956), M.A. Saverin (editor; Mashgiz 1951), M.S. Acherkan (editor; Mashgiz 1953), and G.A. Alekseyeva, V. A. Arshinova, Ye.A. Smol'nikova (Mashgiz 1951). There

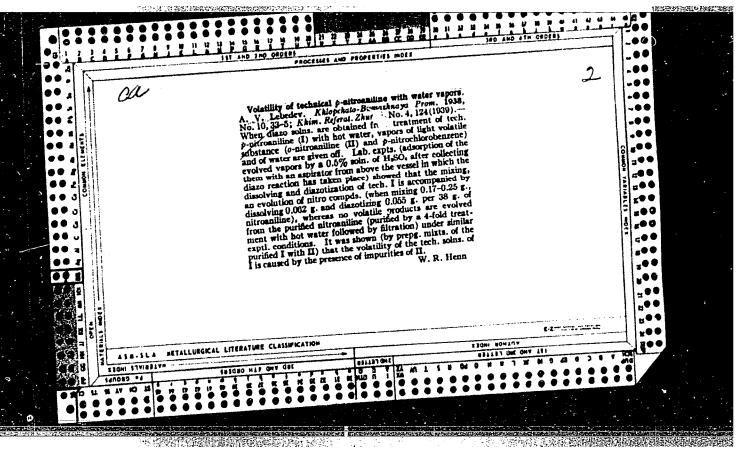
are 4 diagrams.

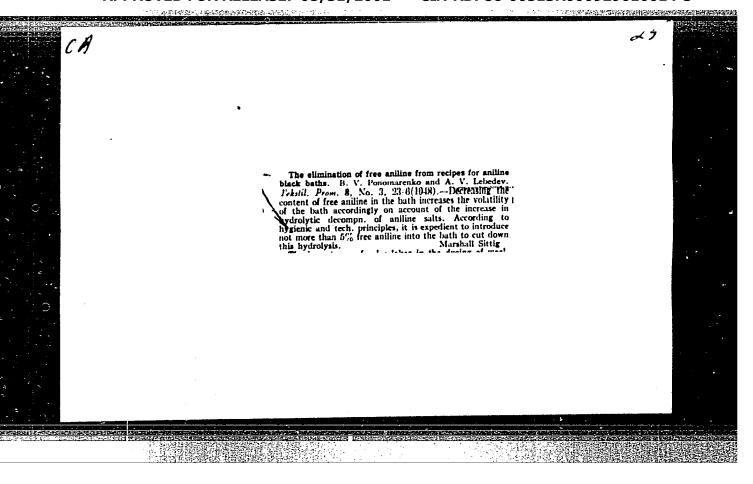
Card 1/1

CIA-RDP86-00513R000929010014-5" APPROVED FOR RELEASE: 08/31/2001









ACC NR: AP7003008

SOURCE CODE: UR/0413/66/000/021/0156/0156

INVENTORS: Tolchinskiy, Ye. M.; Lebedev, A. V.; Gorbunova, G. I.; Dobrov, N. A.; Gusel'nikova, M. V.; Zagryadskiy, A. I.; Zazulin, V. A.; Podol'skaya, G. V.

ORG: none

TITLE: An automatic measuring and recording device "ERA". Class 42, No. 165597

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 156

TOPIC TAGS: measuring instrument, transistor, analog digital converter, logic element

ABSTRACT: This Author Certificate presents an automatic measuring and recording device "Era." The device contains a group relay commutator of the meters, grouped measuring amplifiers, an analog-digital converter with a zero-organ and a generator of stage voltages, and a directing unit. To connect a desired group to the analog-digital converter and to measure voltages of alternating signs, a logic commutator is connected to the outputs of the measuring amplifiers. This commutator contains transistor switches, the number of which is equal to twice the number of amplifiers. These switches are connected to the group counter and to the sign trigger. The input of the unity position of this trigger is connected to the directing unit, and the input of the zero position is connected with the output of the zero organ.

SUB CODE: 09/

SUBM DATE: 11Jul63

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Card 1/1

UDC: 681.178.9

LEBEDEV, A. V.

Nov/Dec 48

USSR/CHEDISTRY - RUBBER, SYNTHETIC CSMOTIC PRESSURE

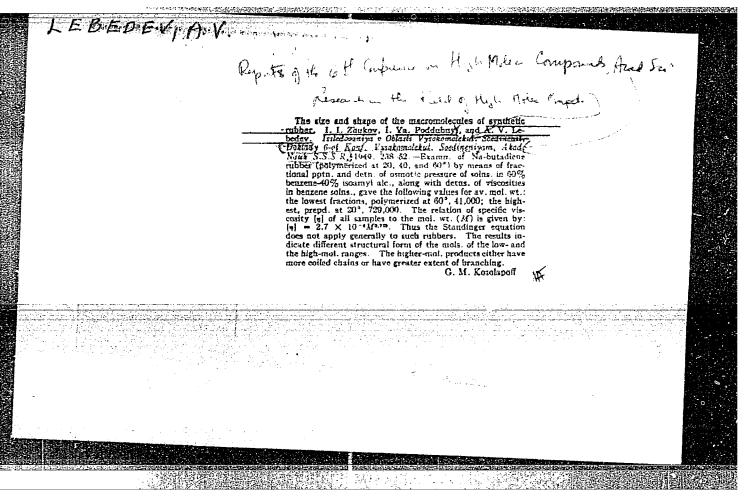
"APhysical and Chemical Study of Synthetic Rubber Solutions: I, Osmotic Pressure of Solutions of Sodium Butadiene Rubber," I. I. Zhukov, I. Ya. Poddubnyy, A. V. Lebedev, All-Union Sci Res Inst of Synthetic Rubber imeni Acad S. V. ebedev, 8 pp

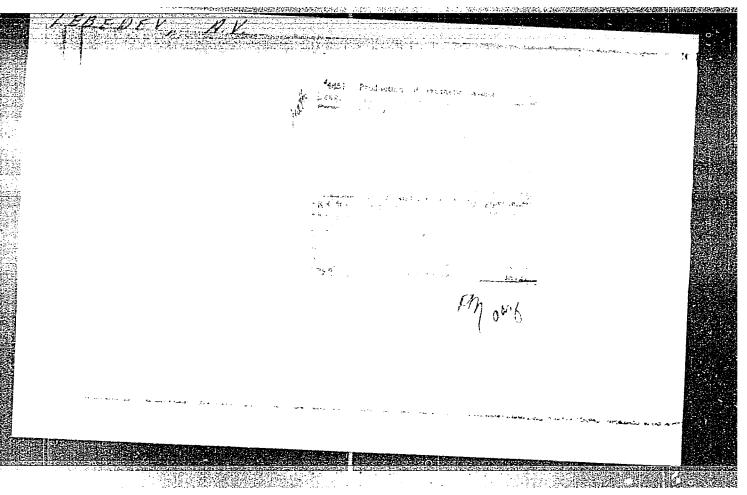
"Kolloid Zhur" Vol X, No 6

Describes construction of an osmometer to determine the molecular weight of high polymers by a dynamic and static method. Works out a method for preparaing osmotic membranes which are semipermeable for rubber solutions. Determines the average numerical molecular weight of an unfractionated speciment of coreless sodium butadiene rubber in four different solvents as equaling 194,000. Submitted 8 Jun 48.

PA 65/49T9

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929010014-5"





AUTHORS:

Peyzner, A. B; Fermor, N. A; Lebedev. A. V.

TITLE:

On the Influence of Plasticity of Rubber on the Technological Properties of Synthetic Latexes. (O vliyanii plastichnosti kauchuka na tekhnologicheskiye svoystva

PERIODICAL:

Kauchuk i Rezina, 1958, Nr.4. pp. 4 - 5. (USSR).

ABSTRACT:

S. V. Lebedev (Ref.1) showed that the plasticity is an important property of sodium 1,3-butadiene rubber, and, therefore, the plasticity was taken as a basis for classifying different types of this rubber (Ref.2). The plasticity indicates the basic molecular characteristics of the rubber (average molecular weight, fractional composition, branching etc.). It is, therefore, necessary to regulate the plasticity of emulsion rubbers during their synthesis. There are some publications on the synthesis of latexes containing rubbers of various plasticity (Ref.3), but no systematic investigations have been carried out on their use for the manufacture proved to be one of the essential factors during investigations carried out by the All-Union Research Institute for Synthetic Rubber (VNIISK) (Vseroyuznyy)

Card 1/3

SOV/138 -58-4-2/13

On the Influence of Plasticity of Rubber on the Technological Properties of Synthetic Latexes.

nauchno-issledovatel'skiy institutsinteticheskogo kauchuka (VNIISK) on the conditions for the manufacture of industrial latexes. VNIISK, NIIR (Research Institute for Rubber and Latex Goods)(Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy) and the Leningrad Factory RTI elaborated methods and conditions for the preparation of special latexes SKS-50 PG (temperature of polymerisation = 50°C) and SKS-50 PKH (temperature of polymerisation = 10°C) by using fatty acids as emulsifiers, and also latex mixtures for manufacturing foam rubber (car seats) etc. It was found that the plasticity of the latex plays an important part during the manufacture of the foam, and that it also affects the properties of the foam itself, Methods and conditions for manufacturing the special latex SKS-50 were investigated by the Leningrad Branch of the Research Institute for the Tyre Industry (NIIKP) (Nauchnoissledovatel'skiy institut kabel'noy promyshlennosti (NIIKP)) and the Factory "Sevkabel'", as well as conditions for coating the cables with a thin layer of insulation. The authors explained the influence of the plasticity of the polymer contained in the latex on the quality of the rubber goods,

Card 2/3